

ABSTRACT

An undulated-wall honeycomb structure (1) has multiple cell passages (2) with mutually parallel passage directions.

- 5 With this undulated-wall honeycomb structure (1), intersections (4) between walls (3) partitioning the cell passages (2) are formed at cross-sections perpendicular to the cell passages (2) and positioned systematically maintaining a predetermined pitch, and also the wall face
- 10 portions (5) of the walls (3) excluding the intersections (4) are formed with undulated shapes in both the cell passage direction and the cross-section direction perpendicular to the cell passage direction. According to this undulated-wall honeycomb structure, advantages such as
- 15 improved exhaust gas purification capabilities and catalyst capabilities, improved mechanical strength for canning, and further improved heat-resistant shock properties can be obtained.

05830030-042001